

TGRAD-B

TESTER, GROUND RESISTANCE

**1. GENERAL.** This procurement requires a clamp-on type ground resistance tester.

**2. CLASSIFICATION.** Type II, Class 3, Style EP, and Color R in accordance with MIL-T-28800.

**3. OPERATIONAL REQUIREMENTS.** The equipment shall be capable of measuring system ground resistance on multigrounded systems having a ground conductor size of 25 mm (1 in) or less in diameter. Auxiliary rods or leads shall not be required for operation.

**3.1 Resistance measurement range.** 2 ohms to 500 ohms.

**3.1.1 Resistance measurement accuracy.**  $\pm$  (10% of indication + 2 LSD)

**3.1.2 Temperature coefficient.** 5% of indicated value for the temperature range of 0 to 30°C.

**3.2 Display resolution.** 3-1/2 digits. The display shall include indicators for low battery voltage and proper clamp engagement.

**3.3 Controls and connectors.** All controls and connectors shall be designed for ease of use by an operator wearing safety gloves.

**4. GENERAL REQUIREMENTS.**

**4.1 Power source.** MIL-T-28800 dc internal power source requirements are invoked. The batteries shall be of a commercially available type and provide 8 hours of continuous operation before replacement. The nominal power source requirements are not invoked.

**4.2 Weight.** 1.5 kg (3.3 lb) maximum, excluding the transit case and any accessories.

**4.3 Dimensions.** 4,740 cc (290 in<sup>3</sup>) maximum.

**4.4 Lithium batteries.** Per MIL-T-28800, lithium batteries are prohibited without prior authorization. A request for approval for the use of lithium batteries, including those encapsulated in integrated circuits, shall be submitted to the procuring activity at the time of submission of proposals. Approval shall apply only to the specific model proposed.

**4.5 Transit case.** The equipment shall be provided with a Style P transit case.